

United States Patent and Trademark Office

UI

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,080	07/17/2003	John Michael Lull	U0128-703410	1848
37462	7590 10/04/2004	•	EXAM	INER
LOWRIE,	LANDO & ANASTAS	MACK, COREY D		
RIVERFRONT OFFICE ONE MAIN STREET, ELEVENTH FLOOR			ART UNIT	PAPER NUMBER
	GE, MA 02142	2001	2855	
			DATE MAILED: 10/04/2004	

DATE MAILED: 10/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

·	Application No.	Applicant(s)			
	10/622,080	LULL ET AL.			
Office Action Summary	Examiner	Art Unit			
2	Corey D. Mack	2855			
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet with	h the correspondence address			
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions o after SIX (6) MONTHS from the mailing date of this commu - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply w Any reply received by the Office later than three months aft earned patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, however, may a reprication. J days, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MONT will, by statute, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed	I on 24 April 2004				
·					
3) Since this application is in condition for	,				
Disposition of Claims					
4) ⊠ Claim(s) <u>1-10,16,17,20-23,28-51 and</u> 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) ⊠ Claim(s) <u>31 and 32</u> is/are objected to 8) ⊠ Claim(s) <u>1-10,16,17,20-23,28-51 and</u>	e withdrawn from consideration.				
Application Papers					
9) The specification is objected to by the	Examiner.				
10) The drawing(s) filed on is/are:	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
Applicant may not request that any object	tion to the drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including t	,	• • •			
Priority under 35 U.S.C. § 119					
	locuments have been received. locuments have been received in Ap f the priority documents have been r al Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s)	A) [1] 1.1	(DTO 442)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PT)	O-948) Paper No(s)	ımmary (PTO-413) /Mail Date			
Information Disclosure Statement(s) (PTO-1449 or P Paper No(s)/Mail Date		formal Patent Application (PTO-152) _·			

Application/Control Number: 10/622,080 Page 2

Art Unit: 2855

DETAILED ACTION

Claim Objections

Claims 31 and 32 are objected to because of the following informalities: Claims 31 and
 both depend from canceled claims. Appropriate correction is required.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-10 and 28-30, drawn to a flow sensor, classified in class 73, subclass708.
 - II. Claims 14-16, drawn to a flow meter, classified in class 702, subclass 50.
 - III. Claim 17, drawn to a compensation filter, classified in class 702, subclass 50.
 - IV. Claims 20-23, drawn to a pressure measurement device, classified in class 702, subclass 50.
 - V. Claims 33-45 and 58-61, drawn to a method of controlling flow, classified in class 137, subclass 488.
 - VI. Claims 46-51, drawn to a method of configuring a mass flow controller, classified in class 702, subclass 50.
- 3. The inventions are distinct, each from the other because of the following reasons:
- A. Inventions I, II and V and Invention III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combinations as claimed do not require the particulars of the subcombination as

•5

Application/Control Number: 10/622,080

Art Unit: 2855

claimed because any generic compensation filter could be used in the combination. The subcombination has separate utility such as signal processing in a differential pressure system.

Page 3

- B. Inventions I, II and V and Invention IV are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because any generic displacement compensation means could be used in the combination. The subcombination has separate utility such as a liquid level indicator.
- C. Inventions I, II, V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed towards differing utilities, such as flow measurement versus flow control, and/or require the use of separate components, such as subtractors, valves and control loops that are not required by the other inventions.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/622,080

Art Unit: 2855

6. Because these inventions are distinct for the reasons given above and the search required for each group is different, restriction for examination purposes as indicated is proper.

Page 4

- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Corey D. Mack whose telephone number is (571) 272-2181. The examiner can normally be reached on M-F, 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on (571) 272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/622,080

Art Unit: 2855

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CAM

Corey D. Mack, Esq. Patent Examiner Art Unit 2855

September 29, 2004

EDWARD LEEKOWITZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800 Page 5